

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	)	
	)	
Yoshihisa WARASHINA et al.	)	
	)	
Application No.: 10/589,604	)	Confirmation No.: 2689
	)	
Filed: August 13, 2007	)	Group Art Unit: 2874
	)	
Allowed: June 2, 2008	)	Examiner: Daniel Petkovsek
	)	
For: OPTICAL WIRING BOARD AND	)	
METHOD FOR MANUFACTURING	)	
OPTICAL WIRING BOARD	)	

**MAIL STOP ASSIGNMENT RECORDATION SERVICES**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

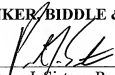
**REQUEST FOR RETURN OF RECORDED ASSIGNMENTS**

Assignments for the above-identified application were filed in the U.S. Patent and Trademark Office on June 4, 2007 and on August 13, 2007. To date, no recorded assignments have been received. A copy of the Recordation Form Cover Sheets (PTO-1595) along with copies of the Assignments and the PTO postcard receipts submitted June 4, 2007 and August 13, 2007 are attached.

Please promptly send the recorded assignments to the undersigned. Thank you.

Respectfully submitted,

**DRINKER, BIDDLE & REATH, LLP**

  
By: Peter J. Sistare, Reg. No. 48,183

Dated: June 9, 2008  
**Customer No.: 55694**  
**DRINKER BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, DC 20005-1209  
Tel: (202) 842-8800  
Fax: (202)-204-0289



# DrinkerBiddle&Reath

A Pennsylvania Limited Liability Partnership

Suite 1100

1500 K Street, N.W.  
Washington, DC 20005-1209

202-842-8800 Phone

202-842-8465/66 Fax

The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the receipt of:

## I. Application

- ☐ A. Application Transmittal
- ☐ Provisional
  - ☐ Utility
  - ☐ Design
  - ☐ Plant
- ☐ B. Continuation/Divisional/Continuation-In-Part
- ☐ § 1.53(b)
  - ☐ § 1.53 (f) -- fee not included
- ☐ C. English Translation of Specification:  
\_\_\_\_ Sheet(s) (Plus Translation  
Verification Sheet)
- ☐ D. \_\_\_\_ Total Claim(s)
- ☐ E. \_\_\_\_ Sheets of Replacement  
Drawing(s)  
(containing Figures )
- ☐ F. Small Entity
- ☒ G. Combined Declaration & Power of  
Attorney

## II. Prosecution Documents

- ☐ A. Notice of Appeal
- ☐ B. Preliminary Amendment
- ☐ C. Information Disclosure Statement
- ☐ PTO Form 1449
  - ☐ non-US references
  - ☐ PCT/ISA/210 (International Search  
Report dated )

## III. Post Issuance

- ☐ A. \_\_\_\_ Maintenance Fee
- ☐ B. Request for Correction of Letters Patent

## IV. Recordation

- ☒ A. Assignment
- ☐ B. Security Interest Agreement (Number of  
Patents Covered: \_\_\_\_)
- ☐ C. Change of Name, Merger or Other  
Transfer Document (Number of  
Patents Covered: \_\_\_\_)
- ☒ D. PTO Recordation Form Cover Sheet

## VI. Payment

- ☒ Check No. 37947 for \$170.00
- ☐ Fee Transmittal PTO/SB/17
- ☐ Deposit Account No. \_\_\_\_ for \$ \_\_\_\_

## VII. Other

- ☒ A. Response to Notification of Missing  
Requirements
- ☒ B. Copy of Notification of Missing  
Requirements
- ☐ C. PCT/IB/338 (International Preliminary  
Examination Report)
- ☐ D. PCT/IB/373
- ☐ E. PCT/ISA/237

Date:

June 4, 2007

Client No.:

46884

Attorney Docket No./File No.:

46884-5506

Matter No.:

230288

Title:

Optical Wiring Board And Method For Manufacturing Optical Wiring  
Board

Inventor(s):

Yoshihisa WARASHINA et al.

Application/Patent No.

10/589,604

Attorney:

John G. Smith

Confirmation No.

2689

Secretary:

Faiza Shahzadi

⑦  
msb 6/9/07

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Yoshihisa WARASHINA et al.	)	Confirmation No.: 2689
	)	
U.S. Application No.: 10/589,604	)	Group Art Unit: Unassigned
	)	
Filed: August 16, 2006	)	Examiner: Unassigned
	)	
For: OPTICAL WIRING BOARD AND METHOD	)	
FOR MANUFACTURING OPTICAL WIRING	)	
BOARD	)	

**MAIL STOP PCT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS**  
**UNDER 35 U.S.C. § 371 IN THE U.S. DESIGNATED/ELECTED OFFICE (DO/EO/US)**

1. This replies to the Notification of Missing Requirements (Form PCT/DO/EO/905) mailed April 2, 2007.  
  
A copy of the Notification of Missing Requirements (Form PCT/DO/EO/905) is enclosed.
2. Declaration Or Oath  
  
☒ No declaration or oath was filed. Enclosed is the original Combined Declaration and Power of Attorney. Attainment of a Declaration and Assignment signature for inventor Hajime TAKEYAMA is still in process.  
  
☐ The specification attached to the declaration is a copy of the specification and any amendments thereto which were filed in the PTO to obtain the filing date.  
  
☐ The declaration or oath which was filed was determined to be defective. A new original Combined Declaration and Power of Attorney is attached.
3. English Translation of Non-English Language Papers  
  
☐ Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.  
  
☐ Also enclosed is the Verification of Translation Document

## 4. Small Entity Statement(s)

☐ Applicant(s) hereby assert small entity status.

## 5. Fee Calculation

Basic National Stage Fee:				Previously Paid
	Number Filed	Number Extra	at a Rate of	
Total Claims	12 -20 =	0	\$50.00 each=	\$0.00
Independent Claims	3 - 3 =	0	\$200.00 each=	\$0.00
Multiple dependent claim(s), if any			\$360.00	\$0.00
Missing Requirements Surcharge Fee			\$130.00	\$130.00
Application Size Fee \$250.00 for each additional 50 sheets that exceeds 100				\$0.00
Application Search Fee			\$400.00	Previously Paid
Examination Fee			\$200.00	Previously Paid
SUB-TOTAL =				\$130.00
Fee For Application Filed With A Non-English Specification (37 C.F.R. § 1.17(k) and § 1.52(d))			\$130.00	\$0.00
Fee For Processing and retention of application (37 C.F.R. § 1.21(l) and § 1.53(d))			\$130.00	\$0.00
TOTAL FILING FEE =				\$130.00

## 6. Extension of Time

The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136(a) apply.

☐ Applicants petition for an extension of time, the fees for which are set out in 37 C.F.R. § 1.17(a)-(d), for the total number of months checked below:

	Total Months Requested	Extension Fee	Extension Fee [Small Entity]
<input type="checkbox"/>	One month	\$120.00	\$60.00
<input type="checkbox"/>	Two months	\$450.00	\$225.00
<input type="checkbox"/>	Three months	\$1,020.00	\$510.00
<input type="checkbox"/>	Four months	\$1,590.00	\$795.00
<input type="checkbox"/>	Five months	\$2,160.00	\$1,080.00

Extension of time fee due with this request: \$0.00

If an additional extension of time is required, please consider this a Petition therefor.

☒ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

## 7. Fee Payment

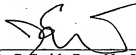
The total fee due is:	Completion Fees	<u>\$130.00</u>
	Assignment Fees	<u>\$40.00</u>
	Total Fee Due	<u>\$170.00</u>

- ☒ A check in the amount of \$170.00 to cover the above fees is enclosed
- ☐ The Commissioner is hereby authorized to charge the total fee due to Deposit Account 50-0573.
- ☒ Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §1.16 and §1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0573.

## 8. Additional papers enclosed.

- ☐ PCT/IB/338 English translation of the International Preliminary Examination Report
- ☐ PCT/IB/373
- ☐ PCT/ISA/237
- ☐ PCT/ISA/210 (International Search Report dated )
- ☐ Information Disclosure Statement
- ☐ Form PTO-1449, non-US patent documents as listed
- ☒ Assignment Recordation Cover Sheet (PTO Form-1595)
- ☒ Assignment of the invention to HAMAMATSU PHOTONICS K.K.

Respectfully submitted,

**DRINKER BIDDLE & REATH LLP**

---

John G. Smith, Reg. No. 33,818

Date: June 4, 2007  
Customer No. 055694  
DRINKER BIDDLE & REATH LLP  
1500 K. Street, N.W., Suite 1100  
Washington, DC 20005-1209  
Tel: (202) 842-8800  
Fax: (202) 204-0289

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Attorney Docket No.: 46884-5506

To the Commissioner for Patents

ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Yoshihisa WARASHINA  
2) Yasuji HOSHINO  
3) Masaaki MUTO

Additional names of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: (1,3) August 25, 2006; (2) August 29, 2006

2. Name and address of receiving party(ies):

Name: HAMAMATSU PHOTONICS K.K.

Address: 1126-1, Ichino-cho,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. New Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s) 10/589,604

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John G. Smith

Internal Address: DRINKER BIDDLE & REATH LLP  
Customer No. 55694

Street Address: 1500 K. Street, N.W., Suite 1100

City: Washington State: D.C. Zip: 20005-1209

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to Deposit Account 50-0573

8. Deposit Account No. 50-0573  
(Attach duplicate page if paying by deposit account)

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John G. Smith, Reg. No. 33,818

Name of Person Signing

  
Signature

June 4, 2007

Date

Total number of pages including cover sheet, attachments and documents: 2

# ASSIGNMENT

Whereas, I/we, <u>Name</u>	<u>Address</u>
1) Yoshihisa WARASHINA	c/o Hamamatsu Photonics K.K., 1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan c/o Hamamatsu Photonics K.K.,
2) Yasuji HOSHINO	1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan c/o Hamamatsu Photonics K.K.,
3) Hajime TAKEYAMA	1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan c/o Hamamatsu Photonics K.K.,
4) Masaaki MUTO	1126-1, Ichino-cho, Hamamatsu-shi, Shizuoka 435-8558 Japan

hereinafter called assignor(s), have invented certain improvements in  
OPTICAL WIRING BOARD AND METHOD FOR MANUFACTURING OPTICAL WIRING BOARD

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on August 16, 2006, Serial No. 10/589604; and

Whereas

HAMAMATSU PHOTONICS K.K.  
1126-1, Ichino-cho,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent on this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

## INVENTORS

## DATE SIGNED

1): Yoshihisa Warashina  
Name: Yoshihisa WARASHINA

2): Y. Hoshino  
Name: Yasuji HOSHINO

3): Hajime Takeyama  
Name: Hajime TAKEYAMA

4): Masaaki Muto  
Name: Masaaki MUTO

August 25, 2006

August 29, 2006

August 25, 2006

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

# Drinker Biddle & Reath L L P

Suite 1100  
1500 K Street, N.W.  
Washington, DC 20005-1209  
202-842-8800 Phone  
202-842-8465/66 Fax



The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the filing of:

## I. Application

- ☐ A. New Application
- ☐ Provisional
- ☐ Utility
- ☐ Design
- ☐ Plant
- ☐ B. Continuation/Divisional/Continuation-In-Part
- ☐ § 1.53(b)
- ☐ § 1.53 (f) – fee not included
- ☐ C. Specification: \_\_\_\_\_ Sheet(s)
- ☐ D. \_\_\_\_\_ Claim(s)
- ☐ E. Drawing(s)
- ☐ Formal
- ☐ Informal
- ☐ F. Small Entity
- ☒ G. Combined Declaration & Power of Attorney

## II. Prosecution Documents

- ☐ A. Request for Correction of Official Filing Receipt
- ☒ B. Response to Notice of Missing Parts/Incomplete Application
- ☒ 3 Month Extension of Time
- ☐ C. Claim to Priority & Priority Document(s)
- ☐ D. Information Disclosure Statement
- ☐ PTO Form 1449 – \_\_\_\_\_ page(s)
- ☐ \_\_\_\_\_ Prior Art Reference(s)
- ☐ E. Issue Fee
- ☐ Form PTOL-85
- ☐ Request for \_\_\_\_\_ Soft Copies
- ☐ F. Formal Drawing(s): \_\_\_\_\_ Sheet(s)

## III. Post Issuance

- ☐ A. \_\_\_\_\_ Maintenance Fee
- ☐ B. Request for Correction of Letters Patent

## IV. Recordation

- ☒ A. Assignment Agreement (Number of Patents Covered: 1)
- ☐ B. Security Interest Agreement (Number of Patents Covered: \_\_\_\_\_)
- ☐ C. Change of Name, Merger or Other Transfer Document (Number of Patents Covered: \_\_\_\_\_)
- ☒ D. PTO Recordation Form Cover Sheet

## VI. Payment

- ☒ Check No. 38429 for \$1060.00
- ☐ Deposit Account No. \_\_\_\_\_ for \$\_\_\_\_\_
- ☐ No Fee

## VII. Other

- ☒ A. Transmittal Letter
- ☐ B. Power of Attorney
- ☐ C. Appointment of Domestic Representative
- ☐ D. Change of Correspondent's Address
- ☒ E. PTO SB/17 Fee Transmittal Form;  
PTO SB/21 Transmittal Form

Date: August 13, 2007

Client No.: 46884

File No.: 46884-5506

Matter No.: 230288

Title: Optical Wiring Board and Method for Manufacturing Optical Wiring Board

Inventor(s): Yoshihisa WARASHINA et al.

Serial/Patent No.: 10/589,604

Attorney: Joseph J. Buczynski, Reg. No. 35,084

Secretary: Rozanne Esparza

⑤ myb 8/13/07



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004,  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1060.00

## Complete if Known

Application Number 10/589,604  
Filing Date August 16, 2006  
First Named Inventor Yoshihisa WARASHINA  
Examiner Name Unassigned  
Art Unit 2874  
Attorney Docket No. 46884--5506

## METHOD OF PAYMENT (check all that apply)

- ☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_
- ☐ Deposit Account Deposit Account Number: 50-0573 Deposit Account Name: Drinker Biddle & Reath
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- ☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
- ☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## FEE CALCULATION

### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

### 2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
- 20 or HP =	x	=
HP = highest number of total claims paid for, if greater than 20.		
Indep. Claims	Extra Claims	Fee (\$)
- 3 or HP =	x	=
HP = highest number of independent claims paid for, if greater than 3.		
Multiple Dependent Claims		Fee (\$)
Fee Paid (\$)		

### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

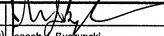
- 100 = / 50 = (round up to a whole number) x = Fee Paid (\$)

### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount) Fee Paid (\$)

Other (e.g., late filing surcharge): Response w/3 Month Extension of Time: Declaration and Assignment \$1060.00

## SUBMITTED BY

Signature  Registration No. 35,084 Telephone 202-842-8806  
Name (Print/Type) Joseph V. Buczynski Date August 13, 2007

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

10

Application Number

10/589,604

Filing Date

August 16, 2006

First Named Inventor

Yoshihisa WARASHINA

Art Unit

2874

Examiner Name

Unassigned

Attorney Docket Number

46884-5506

**ENCLOSURES (Check all that apply)**

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/  
Incomplete Application☐ Reply to Missing Parts  
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition



Petition to Convert to a



Provisional Application



Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s)



Landscape Table on CD

Remarks



After Allowance Communication to TC

Appeal Communication to Board  
of Appeals and InterferencesAppeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify  
below):

DBR Filing Cover Sheet

Fee Transmittal Form

Combined Declaration and Power of Attorney

Recordation and Assignment

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name

Drinker Biddle &amp; Reath LLP

Signature

Printed name

Joseph J. Buczyński

Date

August 13, 2007

Reg. No.

35,084

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Yoshihisa WARASHINA et al.	)	Confirmation No.: 2689
	)	
U.S. Application No.: 10/589,604	)	Group Art Unit: 2874
	)	
Filed: August 16, 2006	)	Examiner: Unassigned
	)	
For: OPTICAL WIRING BOARD AND METHOD	)	
FOR MANUFACTURING OPTICAL WIRING	)	
BOARD	)	

MAIL STOP PCT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**FURTHER RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS  
UNDER 35 U.S.C. § 371 IN THE U.S. DESIGNATED/ELECTED OFFICE (DO/EO/US)**

1. This further replies to the Notification of Missing Requirements (Form PCT/DO/EO/905) mailed April 2, 2007. The due date for which is extended to September 2, 2007.

A copy of the Notification of Missing Requirements (Form PCT/DO/EO/905) is enclosed.

2. Declaration Or Oath

☒ Enclosed is the Declaration and Power of Attorney as executed by Hajime TAKEYAMA. It is noted that the address for Mr. Takeyama was updated to indicate his current residence prior to Mr. Takeyama's execution of the declaration.

☐ The specification attached to the declaration is a copy of the specification and any amendments thereto which were filed in the PTO to obtain the filing date.

☐ The declaration or oath which was filed was determined to be defective. A new original Combined Declaration and Power of Attorney is attached.

3. English Translation of Non-English Language Papers

☐ Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.

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## 4. Small Entity Statement(s)

☐ Applicant(s) hereby assert small entity status.

## 5. Fee Calculation

Basic National Stage Fee:				Previously Paid
\$300.00				
	Number Filed	Number Extra	at a Rate of	
Total Claims	12 -20 =	0	\$50.00 each=	\$0.00
Independent Claims	3 - 3 =	0	\$200.00 each=	\$0.00
Multiple dependent claim(s), if any			\$360.00	\$0.00
Missing Requirements Surcharge Fee			\$130.00	Previously Paid
Application Size Fee				
\$250.00 for each additional 50 sheets that exceeds 100				\$0.00
Application Search Fee			\$400.00	Previously Paid
Examination Fee			\$200.00	Previously Paid
SUB-TOTAL =				\$0.00
Fee For Application Filed With A Non-English Specification (37 C.F.R. § 1.17(k) and § 1.52(d))			\$130.00	\$0.00
Fee For Processing and retention of application (37 C.F.R. § 1.21(l) and § 1.53(d))			\$130.00	\$0.00
TOTAL FILING FEE =				\$0.00

## 6. Extension of Time

The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136(a) apply.

☒ Applicants petition for an extension of time, the fees for which are set out in 37 C.F.R. §§ 1.17(a)-(d), for the total number of months checked below:

	Total Months Requested	Extension Fee	Extension Fee [Small Entity]
<input type="checkbox"/>	One month	\$120.00	\$60.00
<input type="checkbox"/>	Two months	\$450.00	\$225.00
<input checked="" type="checkbox"/>	Three months	\$1,020.00	\$510.00
<input type="checkbox"/>	Four months	\$1,590.00	\$795.00
<input type="checkbox"/>	Five months	\$2,160.00	\$1,080.00

Extension of time fee due with this request: \$1020.00

If an additional extension of time is required, please consider this a Petition therefor.

☐ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

7. Fee Payment

The total fee due is:	Three-Month Extension Fees	\$1020.00
	Assignment Fees	\$ 40.00
	Total Fee Due	\$1060.00

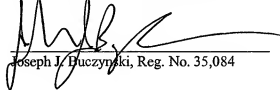
- ☒ A check in the amount of \$1060.00 to cover the above fees is enclosed
- ☐ The Commissioner is hereby authorized to charge the total fee due to Deposit Account 50-0573.
- ☒ Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §1.16 and §1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0573.

8. Additional papers enclosed.

- ☐ PCT/IB/338 English translation of the International Preliminary Examination Report
- ☐ PCT/IB/373
- ☐ PCT/ISA/237
- ☐ PCT/ISA/210 (International Search Report dated )
- ☐ Information Disclosure Statement
- ☐ Form PTO-1449, non-US patent documents as listed
- ☒ Assignment Recordation Cover Sheet (PTO Form-1595)
- ☒ Assignment of the invention to HAMAMATSU PHOTONICS K.K.

Respectfully submitted,

**DRINKER BIDDLE & REATH LLP**

  
 Joseph J. Duczynski, Reg. No. 35,084

Date: August 13, 2007  
 Customer No. 055694  
 DRINKER BIDDLE & REATH LLP  
 1500 K. Street, N.W., Suite 1100  
 Washington, DC 20005-1209  
 Tel: (202) 842-8800  
 Fax: (202) 204-0289

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Attorney Docket No.: 46884-5506

To the Commissioner for Patents

ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1) Hajime TAKEYAMA

Additional names of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: HAMAMATSU PHOTONICS K.K.

Address: 1126-1, Ichino-cho,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Additional name(s) & address(es) attached?

☐ Yes ☒ No

Execution Date: July 27, 2007

4. New Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s) 10/589,604

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joseph J. Buczynski

Internal Address: DRINKER BIDDLE & REATH LLP  
Customer No. 55694

Street Address: 1500 K. Street, N.W., Suite 1100

City: Washington State: D.C. Zip: 20005-1209

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00

☒ Enclosed  
☐ Authorized to be charged to Deposit Account 50-0573

8. Deposit Account No. 50-0573  
(Attach duplicate page if paying by deposit account)

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Joseph J. Buczynski, Reg. No. 35,084

Name of Person Signing

Signature

August 13, 2007

Date

Total number of pages including cover sheet, attachments and documents: 5

# ASSIGNMENT

Whereas, I/we,

NameAddress

1) Yoshihisa WARASHINA

c/o Hamamatsu Photonics K.K.,

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

c/o Hamamatsu Photonics K.K.,

2) Yasuji HOSHINO

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

3) Hajime TAKEYAMA

217-3, Dohon, Hamakita-ku,  
Hamamatsu-shi, Shizuoka 434-0032 Japan

c/o Hamamatsu Photonics K.K.,

4) Masaaki MUTO

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

hereinafter called assignor(s), have invented certain improvements in  
OPTICAL WIRING BOARD AND METHOD FOR MANUFACTURING OPTICAL WIRING BOARD

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

Whereas filed on August 16, 2006, Serial No. 10/589604; and

HAMAMATSU PHOTONICS K.K.

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

INVENTORSDATE SIGNED

1):

Name: Yoshihisa WARASHINA

2):

Name: Yasuji HOSHINO

3):

Name: Hajime Takeyama  
Hajime TAKEYAMA

4):

Name: Masaaki MUTO27 July, 2007